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Appendix B.1

WCDMA Band II



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRPant0

1.1.1 Test Result

Band II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.75	1.96	25.71	<=33.00	Pass
			1880	23.73	1.96	25.69	<=33.00	Pass
			1907.6	23.59	1.96	25.55	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band II

2.1.1 Test Result

Band II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	8	8	-9.190	-0.0050	/	Pass
			12	-9.713	-0.0052	/	Pass
			16	-6.549	-0.0035	/	Pass
		-30	12	-6.768	-0.0037	/	Pass
		-20	12	-6.108	-0.0033	/	Pass
		-10	12	-6.174	-0.0033	/	Pass
		0	12	-10.229	-0.0055	/	Pass
		10	12	-10.073	-0.0054	/	Pass
		30	12	-10.031	-0.0054	/	Pass
		40	12	-11.801	-0.0064	/	Pass
		50	12	-13.398	-0.0072	/	Pass
	1880	8	8	-7.346	-0.0039	/	Pass
			12	-7.259	-0.0039	/	Pass
			16	-10.396	-0.0055	/	Pass
		-30	12	-10.133	-0.0054	/	Pass
		-20	12	-10.783	-0.0057	/	Pass
		-10	12	-4.595	-0.0024	/	Pass
		0	12	-5.764	-0.0031	/	Pass
		10	12	-4.097	-0.0022	/	Pass
		30	12	-8.497	-0.0045	/	Pass
		40	12	-9.086	-0.0048	/	Pass
		50	12	-3.057	-0.0016	/	Pass
	1907.6	20	8	-3.750	-0.0020	/	Pass



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			12	-6.303	-0.0033	/	Pass
			16	-5.932	-0.0031	/	Pass
		-30	12	-7.384	-0.0039	/	Pass
		-20	12	-7.080	-0.0037	/	Pass
		-10	12	-8.902	-0.0047	/	Pass
		0	12	-7.601	-0.0040	/	Pass
		10	12	-7.961	-0.0042	/	Pass
		30	12	-7.553	-0.0040	/	Pass
		40	12	-8.161	-0.0043	/	Pass
		50	12	-6.228	-0.0033	/	Pass

3. 99% & 26dB Bandwidth

3.1 Band II_OBW

3.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.190	/	Pass
			1880	4.183	/	Pass
			1907.6	4.172	/	Pass



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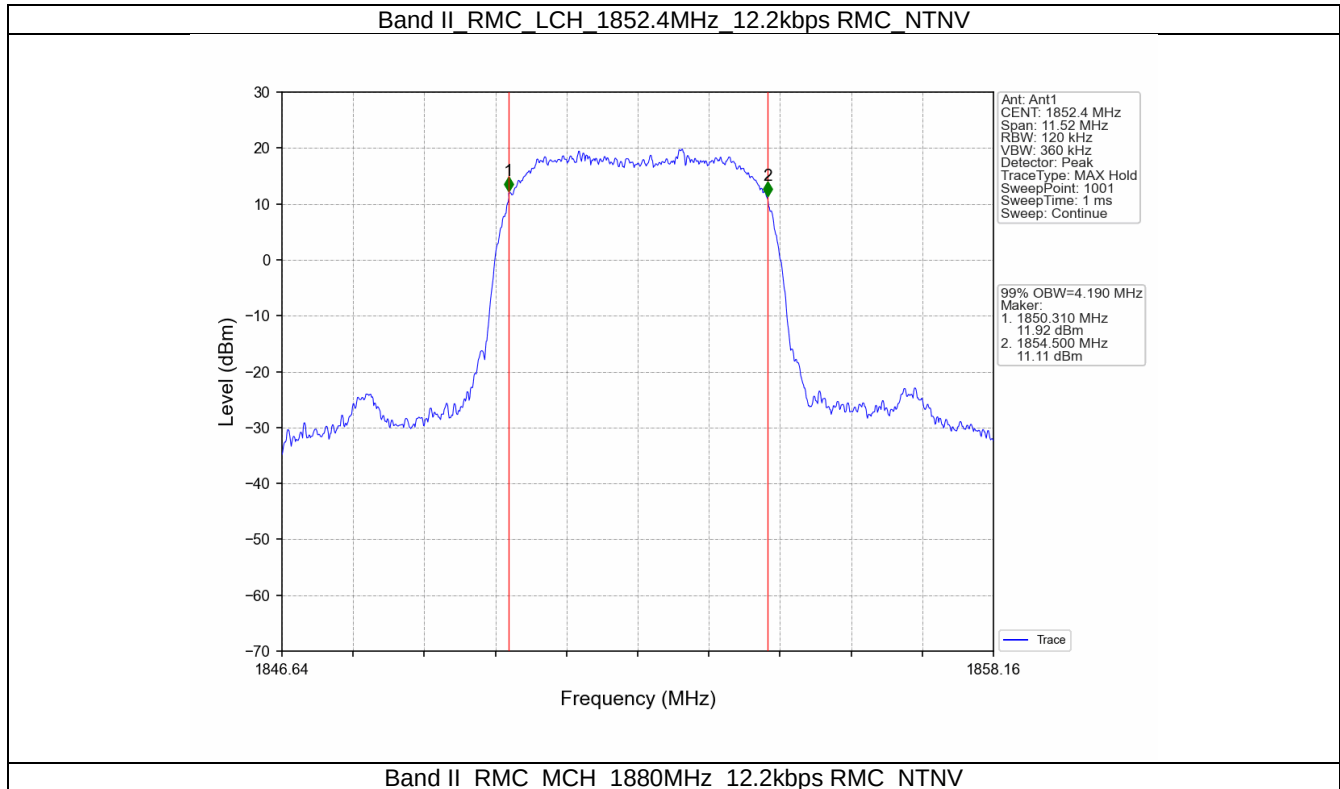
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3.1.2 Test Graph



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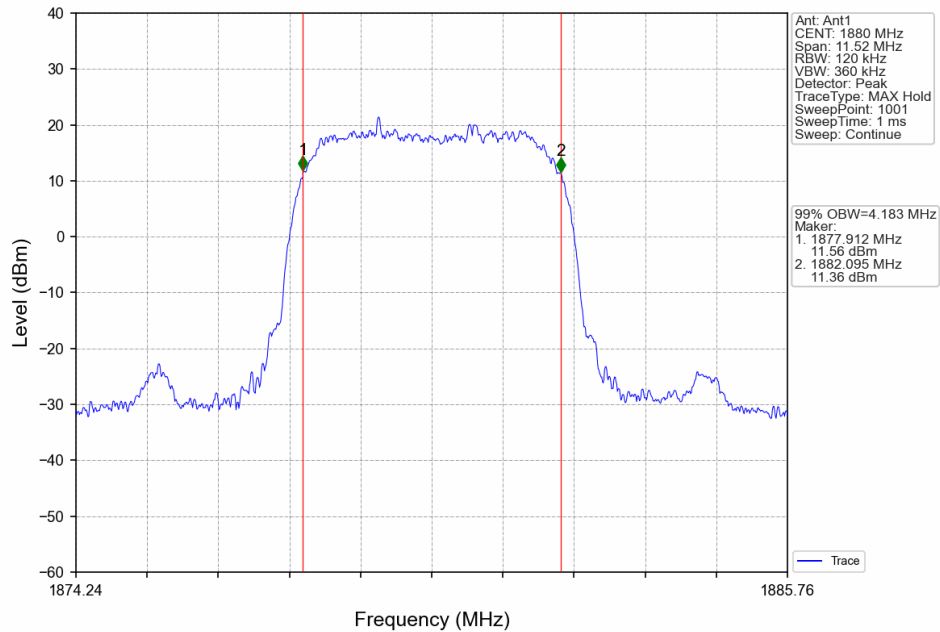
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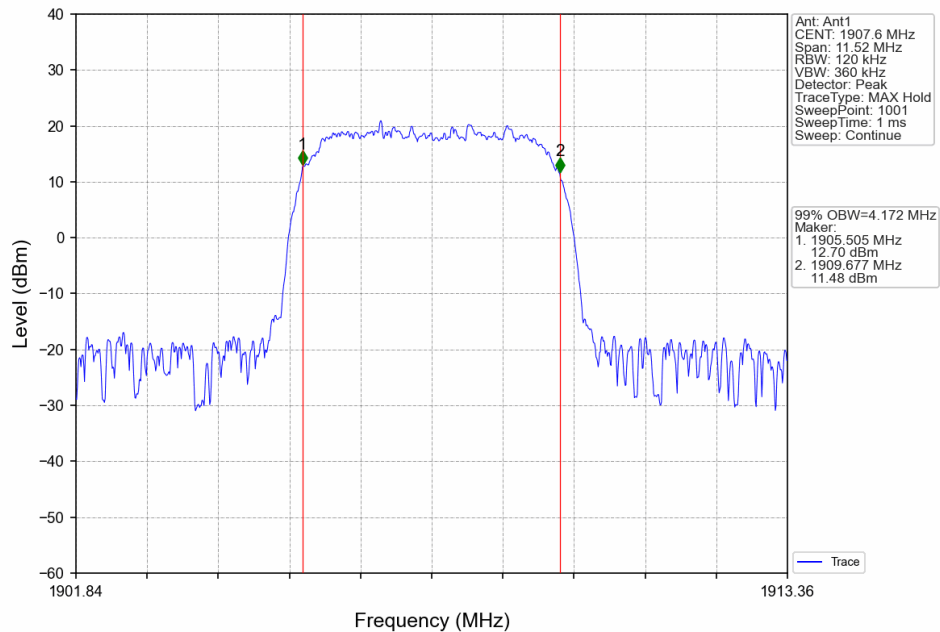
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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3.2 Band II_XDB

3.2.1 Test Result

Band II					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1852.4	4.763	/
			1880	4.721	/
			1907.6	4.723	/
					Pass
					Pass
					Pass



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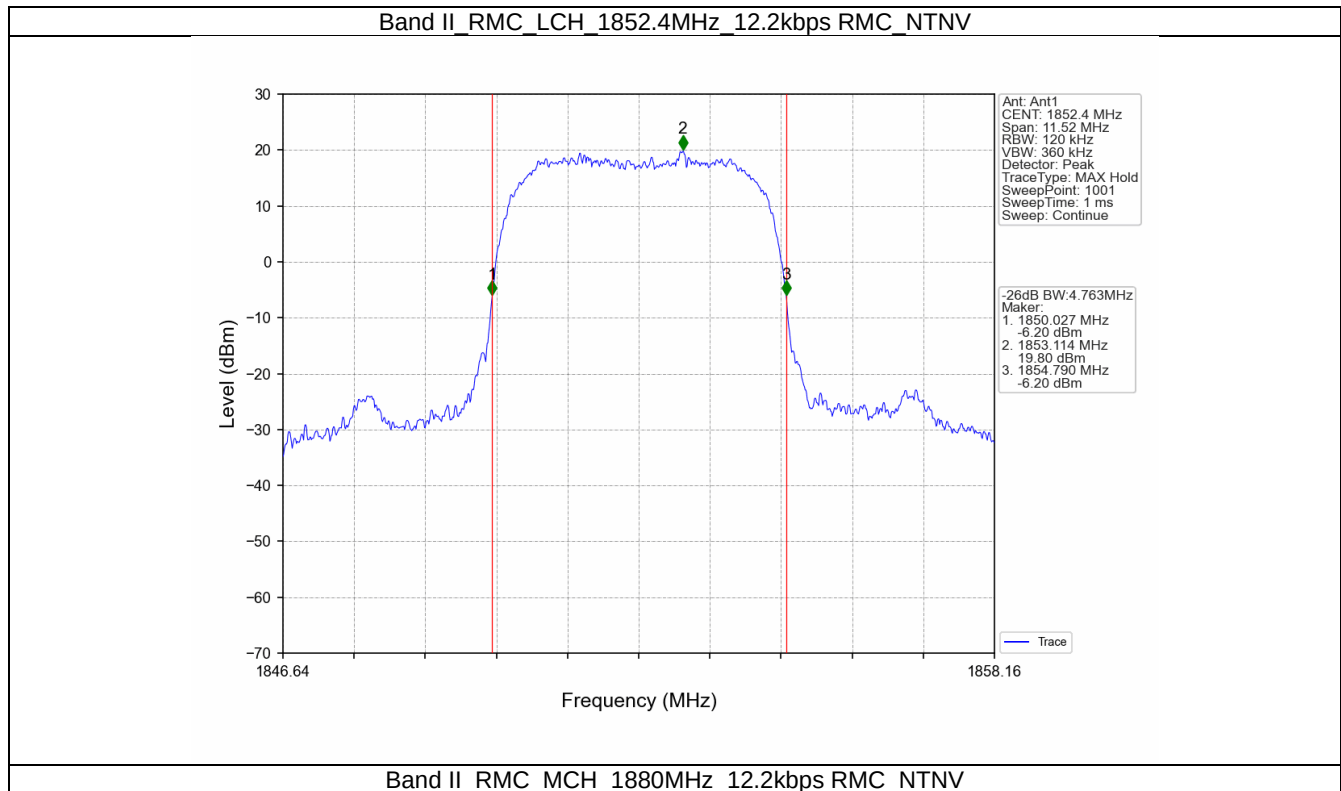
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3.2.2 Test Graph



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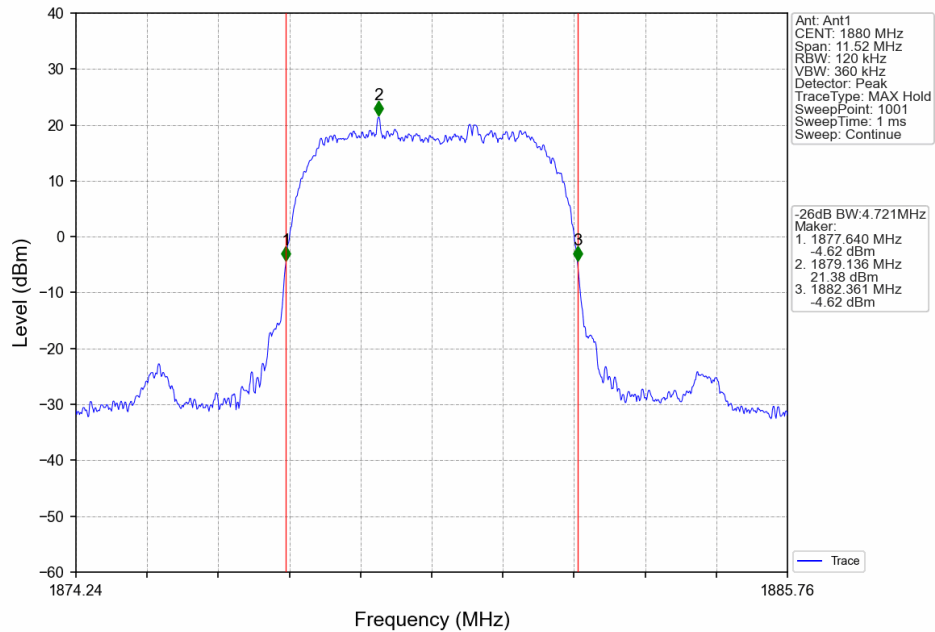
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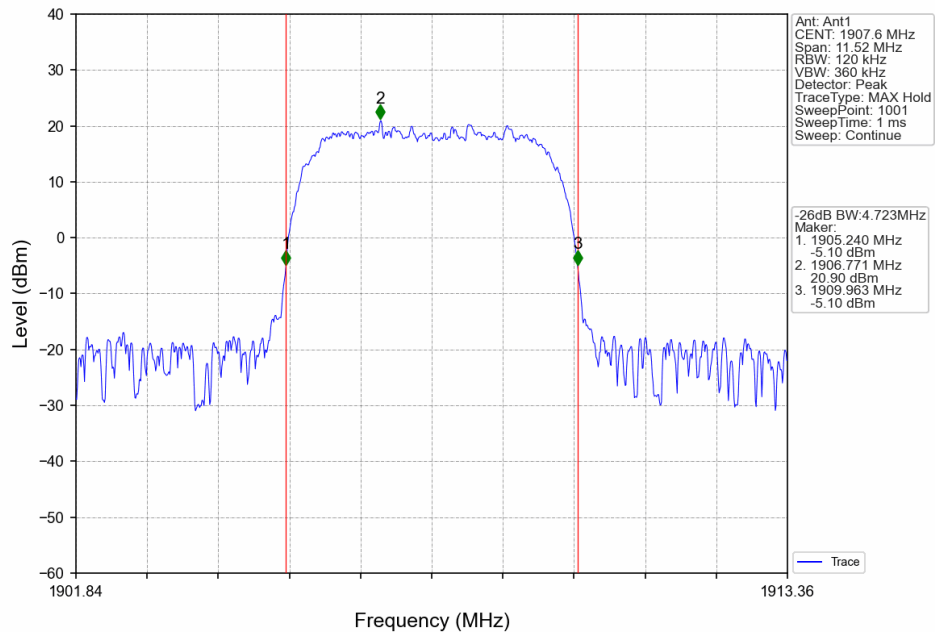
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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4. Peak-Average Ratio

4.1 Band II

4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.85	<=13	Pass
			1880	2.93	<=13	Pass
			1907.6	2.94	<=13	Pass



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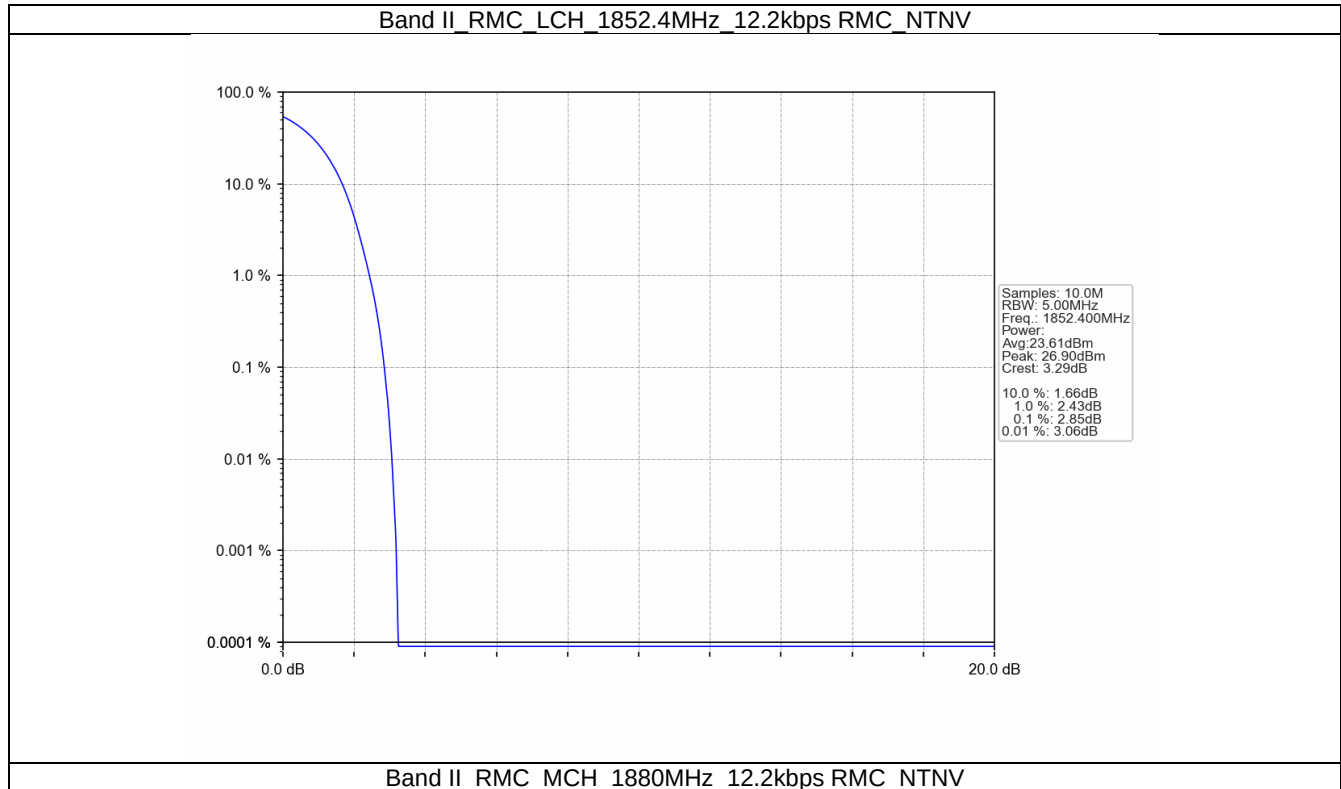
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4.1.2 Test Graph



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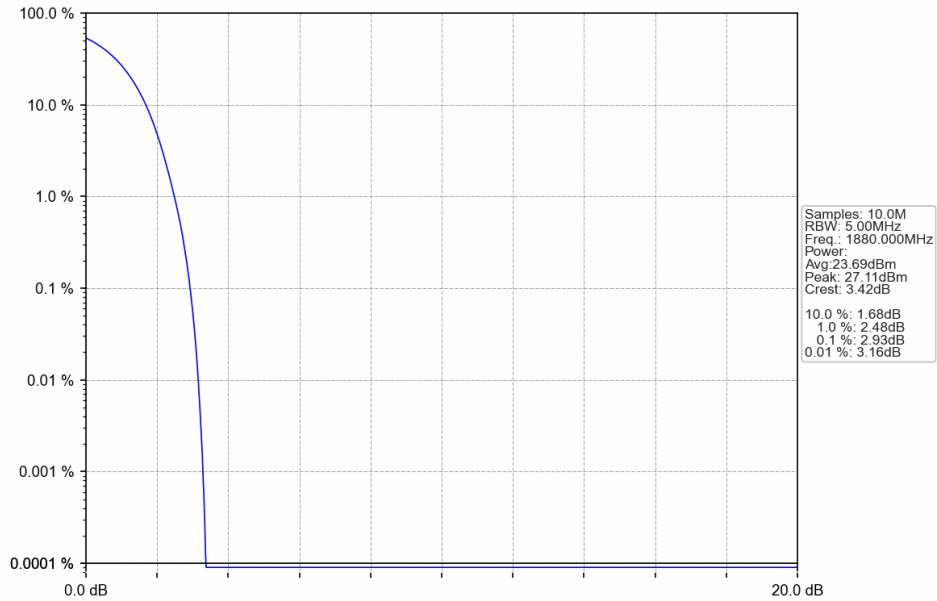
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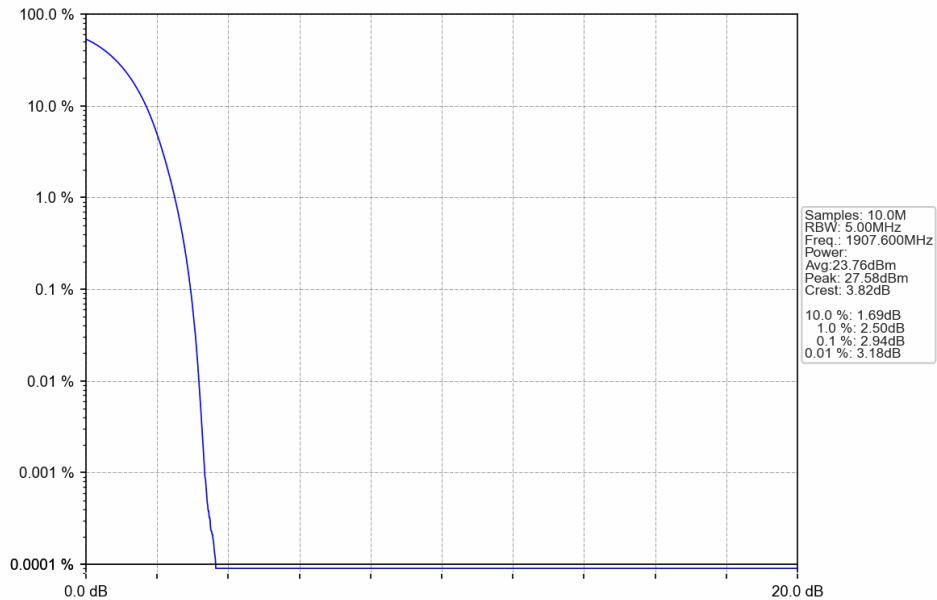
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edges

5.1 Band II

5.1.1 Test Result

Band II					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1907.6	Refer To Test Graph	Pass



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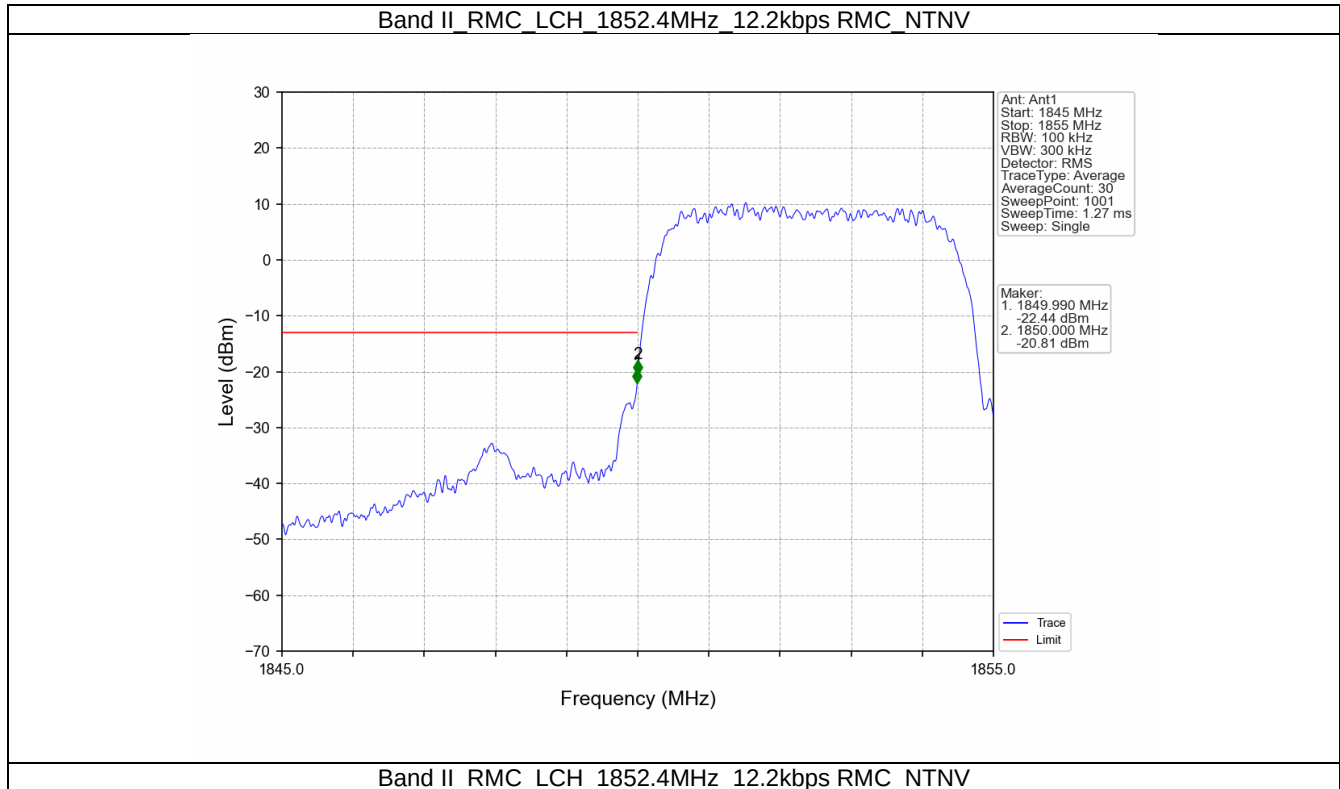
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5.1.2 Test Graph



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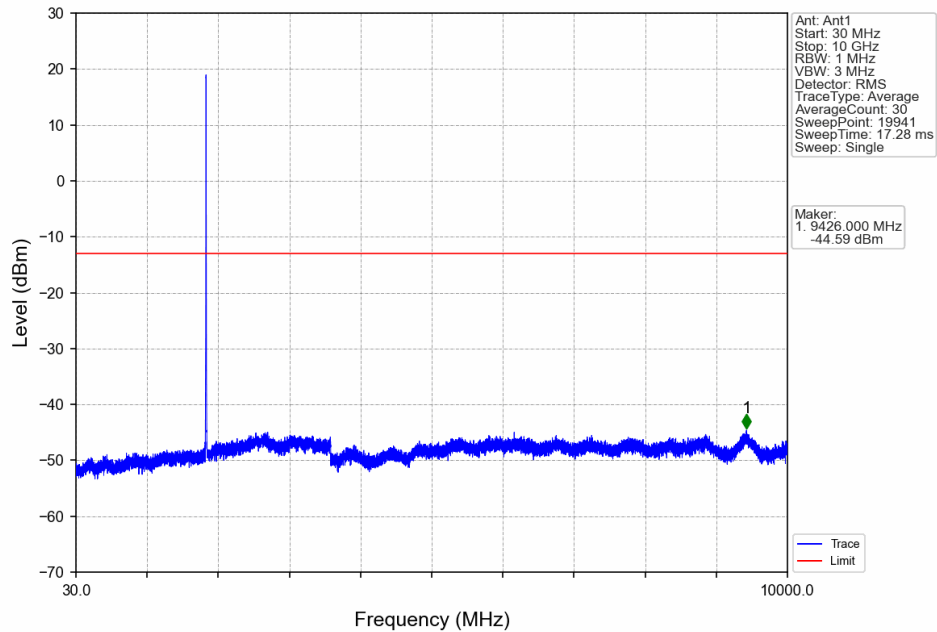
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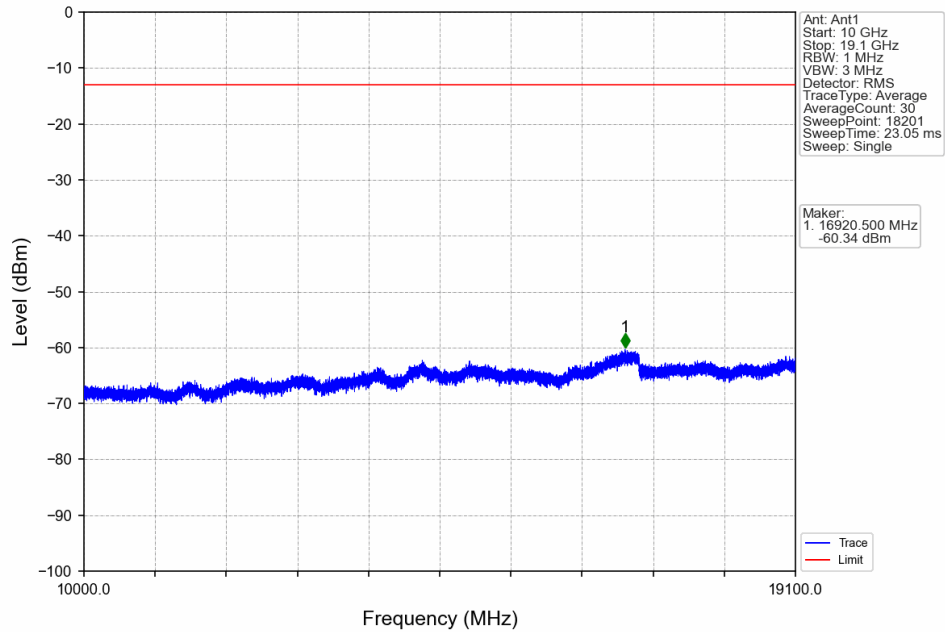
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Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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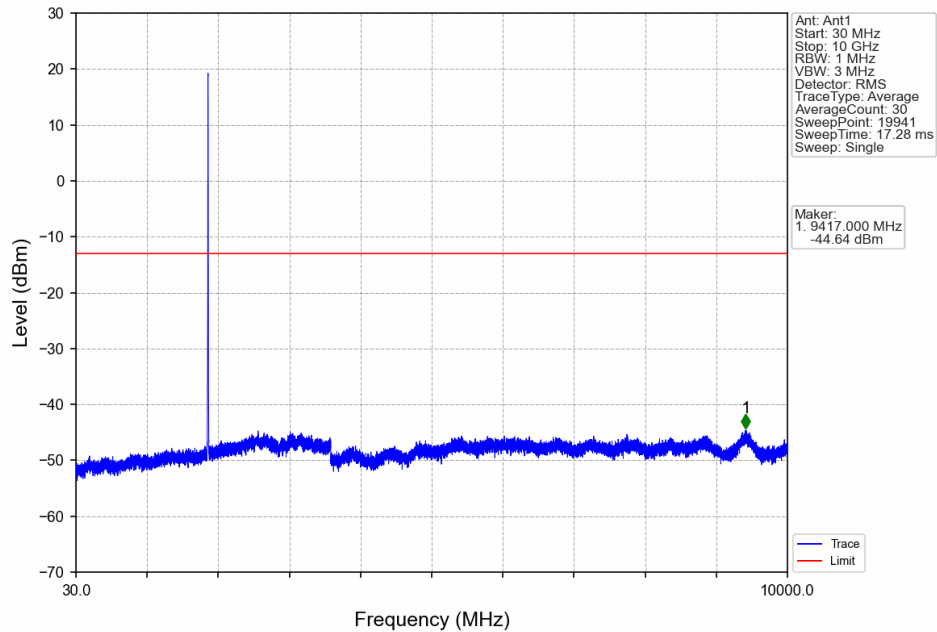
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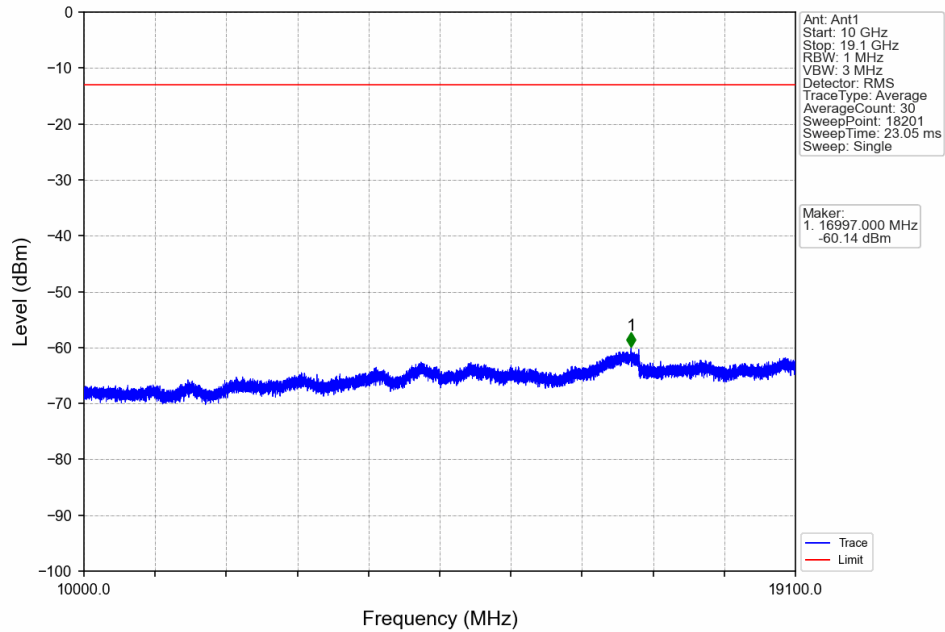
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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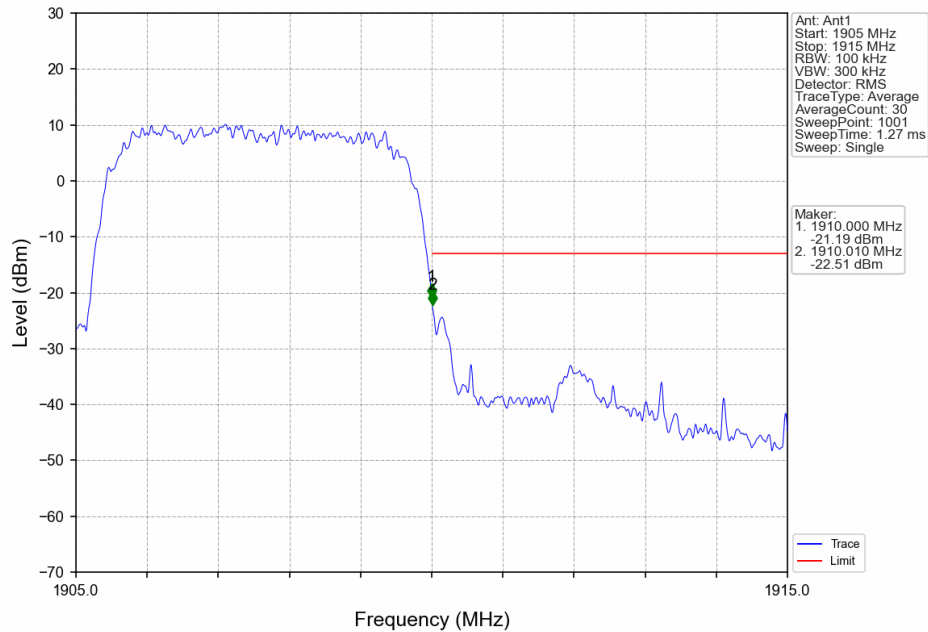
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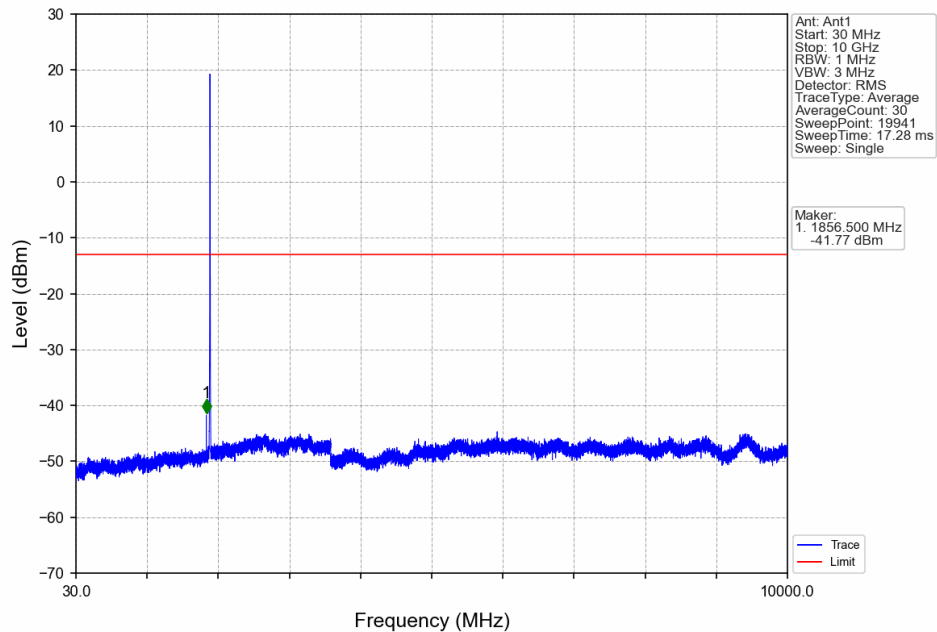
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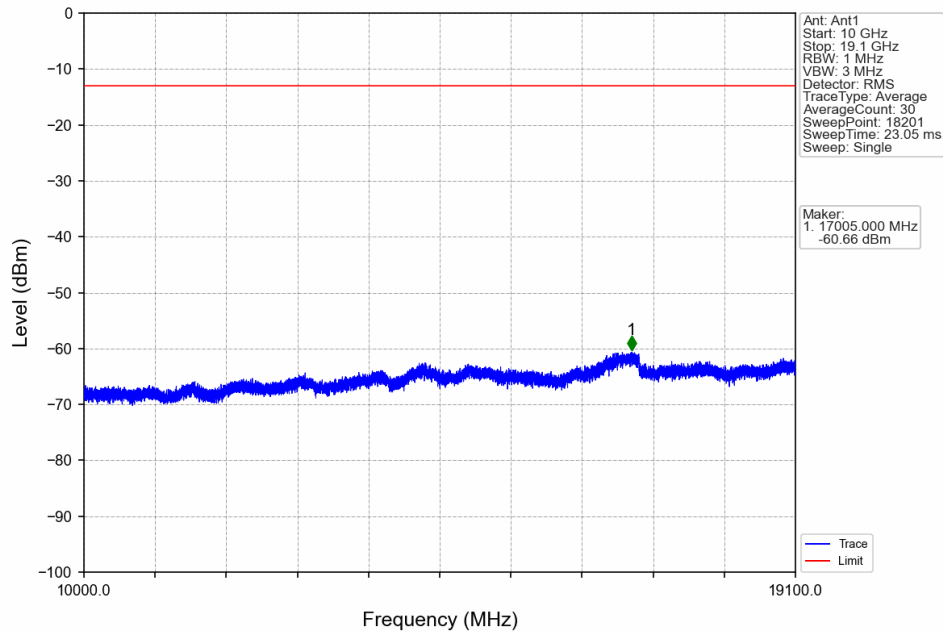
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6. Field Strength of Spurious Radiation

Test Band = WCDMA_Band II_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3703	57.63	-44.52	29.32	-52.83	-13.00	39.83	Horizontal
2	5559.5	50.00	-41.61	32.28	-54.59	-13.00	41.59	Horizontal
3	7435.5	43.55	-38.28	36.77	-53.22	-13.00	40.22	Horizontal
4	9877.5	41.83	-35.13	38.42	-50.14	-13.00	37.14	Horizontal
5	13641.5	41.49	-37.91	40.14	-51.54	-13.00	38.54	Horizontal
6	16395	40.08	-34.85	38.79	-51.24	-13.00	38.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3703	52.95	-44.52	29.32	-57.51	-13.00	44.51	Vertical
2	5559.5	51.24	-41.61	32.28	-53.35	-13.00	40.35	Vertical
3	7418.5	43.37	-38.28	36.74	-53.43	-13.00	40.43	Vertical
4	9905.5	40.77	-35.10	38.61	-50.98	-13.00	37.98	Vertical
5	13639	41.51	-37.91	40.14	-51.52	-13.00	38.52	Vertical
6	16352	40.45	-35.08	38.66	-51.23	-13.00	38.23	Vertical



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Test Band = WCDMA_Band II_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.5	56.44	-44.76	29.63	-53.95	-13.00	40.95	Horizontal
2	5637	47.35	-41.33	32.53	-56.71	-13.00	43.71	Horizontal
3	7430.5	42.94	-38.28	36.76	-53.84	-13.00	40.84	Horizontal
4	10567	41.80	-37.59	39.17	-51.88	-13.00	38.88	Horizontal
5	16409	40.01	-34.89	38.85	-51.29	-13.00	38.29	Horizontal
6	17998.5	39.06	-43.05	48.17	-51.08	-13.00	38.08	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761	49.60	-44.77	29.64	-60.79	-13.00	47.79	Vertical
2	5637	50.38	-41.33	32.53	-53.68	-13.00	40.68	Vertical
3	7901	42.54	-37.48	36.50	-53.70	-13.00	40.70	Vertical
4	9906.5	41.10	-35.13	38.61	-50.68	-13.00	37.68	Vertical
5	13644	41.60	-37.91	40.14	-51.43	-13.00	38.43	Vertical
6	16360	40.38	-35.04	38.68	-51.24	-13.00	38.24	Vertical



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = WCDMA_Band II_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.5	56.58	-44.81	29.77	-53.72	-13.00	40.72	Horizontal
2	5524.5	49.58	-41.75	32.30	-55.13	-13.00	42.13	Horizontal
3	5720	46.72	-41.20	32.50	-57.24	-13.00	44.24	Horizontal
4	7420	43.20	-38.28	36.74	-53.60	-13.00	40.60	Horizontal
5	11093	42.18	-37.55	40.19	-50.44	-13.00	37.44	Horizontal
6	17994	38.29	-43.09	48.09	-51.97	-13.00	38.97	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3814	49.75	-44.83	29.77	-60.57	-13.00	47.57	Vertical
2	5719.5	50.46	-41.20	32.50	-53.50	-13.00	40.50	Vertical
3	6753.5	44.03	-39.54	35.21	-55.56	-13.00	42.56	Vertical
4	7398.5	43.03	-38.29	36.69	-53.83	-13.00	40.83	Vertical
5	11096.5	42.61	-37.57	40.20	-50.02	-13.00	37.02	Vertical
6	16352	39.90	-35.08	38.66	-51.78	-13.00	38.78	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

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